AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A polymer electrolyte membrane or gas diffusion electrode which includes an ion-conducting polymeric material which includes moieties of formula A

which are substituted on average with more than 1 and 3 or less groups which provide ion-exchange sites and hydrogen atoms of said moieties are optionally substituted, wherein each X in said moieties of formula A independently represent an oxygen or sulphur atom.

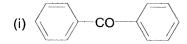
- 2. (Original) A membrane or an electrode according to claim 1, wherein said moieties are substituted on average with 1.8 to 2.2 of said groups which provide ion-exchange sites.
- 3. (Currently Amended) A membrane or an electrode according to claim 1, wherein said ion conducting polymeric material is of a type which includes:
 - (i) phenyl moieties;
 - (ii) carbonyl and/or sulphone moieties; and
 - (iii) ether and/or thioether moieties.
- 4. (Currently Amended) A membrane or an electrode according to claim 1, wherein said ion conducting polymeric material includes a moiety of formula I

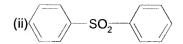
and/or a moiety of formula II

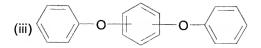
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and/or a moiety of formula_III

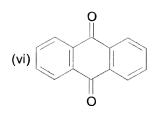
wherein at least some of the units I, II and/or III are functionalised to provide ion-exchange sites, wherein unit A is a part of units I, II and/or III, wherein [[the]] phenyl moieties in units I, II, and III are independently optionally substituted and optionally cross-linked; and wherein m,r,s,t,v,w and z independently represent zero or a positive integer, E and E' independently represent an oxygen or a sulphur atom or a direct link, G represents an oxygen or sulphur atom, a direct link or a -O-Ph-O-moiety where Ph represents a phenyl group and Ar is selected from one of the following moieties (i)* or (i) to (x) which is bonded via one or more of its phenyl moieties to adjacent moieties.

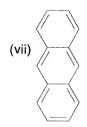


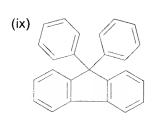


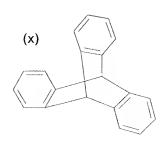












- 5. (Withdrawn) A membrane or an electrode according to claim 1, wherein said ion-conducting polymeric material is sulphonated.
- 6. (Withdrawn) A membrane or an electrode according to claim 4, wherein said polymeric material is a homopolymer having a repeat unit of general formula

$$\begin{array}{c|c}
\hline
\left(E - \left(Ar\right) + \left(O - CO + O - CO +$$

or a homopolymer having a repeat unit of general formula

or a random or block copolymer of at least two different units of IV and/or V provided that repeat units (or parts of repeat unit) are functionalised to provide ion-exchange sites;

or a homopolymer having a repeat unit of general formula

or a homopolymer having a repeat unit of general formula

or a random or block copolymer of at least two different units of IV* and/or V* provided that one or more repeat units (or parts of repeat units) are functionalised to provide ion-exchange sites; wherein A, B, C, and D independently represent 0 or 1 and E, E', G, Ar, m, r, s, t, v, w and z are as described in claim 4.

- 7. (Previously Presented) A membrane or an electrode according to claim 1, wherein said ion-conducting polymeric material is crystalline or crystallisable.
- 8. (Previously Presented) A membrane or an electrode according to claim 1, wherein said polymeric material includes at least some ketone moieties in the polymeric chain.

9. (Withdrawn) A membrane or an electrode according to claim 1, wherein said ion-conducting polymeric material includes a repeat unit of formula

wherein the 1,3- substituted –X-Phenyl-X- moiety is substituted on average with more than 1 and 3 or fewer groups which provide ion-exchange sites, each X independently represents an oxygen or sulphur atom and Y represents a carbonyl or sulphone group.

- 10. (Withdrawn) A membrane or an electrode according to claim 9, wherein Y represents a carbonyl group and X represents an oxygen atom.
- 11. (Currently Amended) A membrane or an electrode according to claim 1, wherein any -O-phenyl-CO or -O-phenyl-SO₂ moieties in said ion-conducting polymeric material are functionalised provided with ion-exchange sites to a level of less than 10 mole%.
- 12. (Currently Amended) A membrane or an electrode according to claim 1, wherein moieties A are the only moieties in said ion-conducting polymeric material which are functionalised provided with ion exchange sites are moieties A.
- 13. (Currently Amended) A membrane or an electrode according to claim 1, wherein substantially 100 mole% of moieties A are <u>diffunctionalised_disubstituted with groups which provide ion-exchange sites</u>.
- 14. (Withdrawn) A membrane or an electrode according to claim 1, wherein said ion conducting polymeric material is a copolymer comprising a first repeat unit which is selected from the following:

- (a) a unit of formula IV wherein E and E' represent oxygen atoms, G represents a direct link, Ar represents a moiety of structure (iv), m and s represent zero, w represents 1 and A and B represent 1 provided that said unit includes moiety A, with both X atoms being oxygen atoms;
- (b) a unit of formula V wherein E and E' represent oxygen atoms, G represents a direct link, Ar represents a moiety of structure (v), m and s represent zero, w represents 1 and A and B represent 1 provided that said unit includes moiety A, with both X atoms being oxygen atoms; and a second repeat unit selected from one of the following:
- (c) a unit of formula IV wherein E and E' represent oxygen atoms, G represents a direct link, Ar represents a moiety of structure (iv), m and s represent zero, w represents 1 and A and B represent 1;
- (d) a unit of formula IV wherein E represents an oxygen atom, E' represents a direct link, Ar represents a moiety of structure (i), m represents zero, A represents 1, B represents zero;
- (e) a unit of formula V wherein E and E' represent oxygen atoms, G represents a direct link, Ar represents a moiety of structure (iv), m and v represent zero, z represents 1 and C and D represent 1;
- (f) a unit of formula V wherein E represents an oxygen atom, E' represents a direct link, Ar represents a moiety of structure (ii), m represents 0, C represents 1, D represents 0;
- (g) a unit of formula V wherein E and E' represents an oxygen atom, Ar represents a structure (i), m represents 0, C represents 1, Z represents 1, G represents a direct link, v represents 0 and D represents 1;
- (h) a unit of formula IV wherein E and E' represent oxygen atoms, G represents a direct link, Ar represents a moiety of structure (iv), m represents 1, w represents 1, s represents zero, A and B represent 1;
- (i) a unit of formula IV wherein E represents an oxygen atom, E' is a direct link, G represents a direct link, Ar represents a moiety of structure (iv), m and s represent zero, w represent 1, A and B represent 1;
- (j) a unit of formula V wherein E and E' represent oxygen atoms, G represents a direct link, Ar represents a moiety of structure (iv), m represents 1, z represents 1, v represents 0, C and D represent 1;
- (k) a unit of formula V wherein E represents an oxygen atom, E' represents a direct link, G represents a direct link, Ar represents a moiety of structure (iv), m and v represent zero, z represents

1, C and D represent 1;

- (l) a unit of formula IV wherein E and E' represent oxygen atoms, G represents a direct link, Ar represents a moiety of structure (v), m represents 0, w represents 1, s represents 0, A and B represents 1;
- (m) a unit of formula V wherein E and E' represent oxygen atoms, G represents a direct link, Ar represents a moiety of structure (v), m represents 0, z represents 1, v represents 0, C and D represent 1.
- 15. (Withdrawn) A membrane or an electrode according to claim 14, wherein said ion-conducting polymeric material includes a first unit selected from (a) or (b) in combination with a second unit selected from (d) or (f) optionally in combination with unit (g).
- 16. (Withdrawn) A membrane or an electrode according to claim 14, wherein said ion-conducting polymeric material comprises unit (a) in combination with unit (d); unit (a) in combination with units (d) and (g); unit (b) in combination with units (f) and (g).
- 17. (Previously Presented) A membrane or an electrode according to claim 1, wherein said polymer electrolyte membrane has an equivalent weight (EW) of less than 500g/mol.
- 18. (Previously Presented) A fuel cell or electrolyser incorporating a polymer electrolyte membrane according to claim 1.
- 19. (Currently Amended) An ion conducting polymeric material which includes an ion-conducting polymeric material which includes moieties of formula A

which are substituted on average with more than 1 and 3 or less groups which provide ion-

exchange sites and hydrogen atoms of said moieties are optionally substituted, wherein each X in said moieties of formula A independently represent an oxygen or sulphur atomas described in claim 1 per se.

20. (Currently Amended) A method of making a sulphonated ion-conducting polymeric material which includes an ion-conducting polymeric material which includes moieties of formula A

which are substituted on average with more than 1 and 3 or less sulphonate groups as described in claim 1, the method comprising contacting a polymeric material which includes a repeat unit of formula A according to claim 1 with a sulphonating agent thereby to substitute the repeat unit on average with more than 1 and 3 or fewer sulphonate groups.

- 21. (Currently Amended) A method according to claim 20, which includes the step of wherein said conditions for controllably sulphonating the polymeric material involve the use of using sulphuric acid at a concentration of at least 99.5%.
- 22. (Original) A method according to claim 21, wherein the sulphuric acid concentration is less than 100.1%.
- 23. (Previously Presented) A method according to claim 21, wherein the temperature during sulphonation is 30°C or above.
- 24. (Currently Amended) A method according to claim 21[[0]], wherein the temperature during the step of controlling sulphonatingsaid sulphonation is 40°C or less.
- 25. (Previously Presented) A method according to claim 23, wherein the selected temperature or temperature range is maintained for at least 2 hours and for less than 20 hours.

26. (Currently Amended) A method according to claim $2\underline{1}[[0]]$, which is carried out by use of 99.8% to 100% sulphuric acid at 34 to 36°C.